

Voluntary observers of the Signal Service, on land, from whom meteorological reports were received in time to be used in the preparation of the Monthly Weather Review for August, 1886.

<i>Observer and place of observation.</i>	<i>Observer and place of observation.</i>	<i>Observer and place of observation.</i>	<i>Observer and place of observation.</i>
Andrews, Luman, Southington, Conn.	Dewhurst, Rev. E., Voluntown, Conn.	Ladshaw, G. E., Paicolet, S. C.	Stucky, Dr. C. T., Helvetia, W. Va.
Anderson, Dr. W. W., Stateburg, S. C.	Day, Theodore, Dyberry, Pa.	Lucas, Rev. O. W., Pendleton, Oreg.	Slade, Eliza, Somerset, Mass.
Altshuler, J. M., Independence, Kans.	Dawson, Wm., Spiceland, Ind.	Lueps, Miss Anna, Manitowoc, Wis.	Shriver, Howard, Wytheville, Va.
Adams, Dr. O. H., Vineland, N. J.	Ellsworth, W. W., Hartford, Conn.	Lincoln, A. T., Murlon, Va.	Sonedecker, Rev. T. H., Tiffin, Ohio.
Abbott, Dr. E. K., Salinas, Cal.	Ellison, W. A., Statesville, N. C.	Loomis, J. C., Jeffersonville, Ind.	Stunkard, L. E., East Brook, Pa.
Abernethy, Hiram, Oroville, Cal.	Ellis, John, Marquette, Neb.	Luther, S. M., Garrettsville, Ohio.	Sim, J. R., Summit, Va.
Abernethy, A. H., Fort Meade, Fla.	Ewell, Dr. M. D., South Evanston, Ill.	Lovewell, Miss Bertha E., Topeka, Kan.	Scribner, H. F. J., Stratford, Vt.
Avey, O. H., Oscaloosa, Iowa.	Eckstein, Rev. M., Conception, Mo.	Lamb, Miss Bertha E., Sterling, Kans.	Strong, S. B., Setauket, N. Y.
Beans, Thos. J., Moorestown, N. J.	Fouch, Dr. A., Anderson, Cal.	Loud, Prof. F. H., Colorado Springs, Colo.	Samostz, Oscar, Austin, Tex.
Bushnell, W. S., Monticello, Ind.	Fitch, Dr. H. L., Urbana, Iowa.	Lereh & Rice, Bethlehem, Pa.	Sherman, W. B., Manchester, Iowa.
Bentley, David, Princeton, Cal.	Fox, G. W., Marietta, Cal.	Louder, R. T., Clarksburg, W. Va.	Standenmayer, Dr. L. R., Lincoln, N. C.
Boerner, Prof. Chas. G., Vevay, Ind.	Ferris, B. F., Sumner, Ind.	Morgan, L. Ray, Phillipsburg, Pa.	Spilman, J. J., Pierce City, Mo.
Boynton, John F., Syracuse, N. Y.	Friend, Chas. W., Carson City, Nev.	Miller, H. D., Drifton, Pa.	Swezey, Prof. G. D., Crete, Nebr.
Bayerly, J. F., Spartanburg, S. C.	Fleming, J., Readington, N. J.	McDonogh Institute, McDonogh, Md.	Tilford, C. M., Mount Blanco, Tex.
Ballou, Dr. N. E., Sandwick, Ill.	Fernand, Prof. M. C., Orono, Me.	McCreedy, Miss L. A., Fort Madison, Mo.	Talbert, Wm., Emporia, Kans.
Bennett, Geo., Bandon, Oreg.	Frisk, John H., Warrenton, Mo.	McKenzie, Dr. M., Centerville, Mo.	Todd, Prof. David P., Amherst, Mass.
Bell, Joseph, Franklin, Pa.	Foss, E. T., Hydesville, Cal.	Moore, C. R., Bird's Nest, Va.	Thornton, Prof. N., Geneseo, Ill.
Blake, J. H., Blue Lake, Cal.	Kuller, Edw. N., Tacoma, Wash. T.	Micklen, J. H., Variety Mills, Va.	Teele, Rev. A. K., Blue Hill, Mass.
Baker, Dr. Henry B., Lansing, Mich.	Gibson, J. H., Salina, Kans.	Macrae, Colin, Kirkwood, S. C.	Truman, Geo. S., Genoa, Nebr.
Beall, Dr. R. L., Lenoir, N. C.	Gore, Prof. J. W., Chapel Hill, N. C.	Meehan, Thos., Germantown, Pa.	Turnbo, Silas C., Pro Tem, Mo.
Brendel, Dr. Fred., Peoria, Ill.	Gray, F. R., Yates Centre, Kans.	Moore, Nathan, Graupian Hills, Pa.	Tillinghast, C. B., Albany, N. Y.
Bartlett, E. B., Vermillion, N. Y.	Gates, W. B., Burlington, Vt.	Mickell, Thos., Wauseon, Ohio.	Terborg, Rev. J. E., Pekin, Ill.
Baldwin, A. L., Bethel, Conn.	Graves, A. B., Belleville, Kans.	Mitchell, Dr. D. W., Harrisville, Mich.	Trembley, Dr. J. B., Oakland, Cal.
Briggs, John, Albany, Oreg.	Gillingham, Milnor, Fallsington, Pa.	Moore, Dr. J. W., Easton, Pa.	Thompson, R. J., Tiffin, Ohio.
Betts, Prof. Arthur, Webster, Dak.	Gardner, R. H., Gardiner, Me.	Motte, L. S., West Milton, Ohio.	Voegeli, Adolphus, Des Moines, Iowa.
Breed, J. E., Embarras, Wis.	Gowey, H. D., North Lewisburg, Ohio.	McGahan, Dr. C. P., Aiken, S. C.	Vail, Hugh D., Santa Barbara, Cal.
Boyd, Joseph, Oskaloosa, Iowa.	Green, Dr. Jesse C., West Chester, Pa.	Newbegin, John D., Anna, Ill.	Went, E. C., Frankfort, Ky.
Boies, Lieut. A. H., Hudson, Mich.	Gerrish, S. H., Sacramento, Cal.	Newcomb, G. S., Westborough, Mass.	Washburn Observatory, Madison, Wis.
Boberg, Mrs. Mary W., Manatee, Fla.	Gray, J. W., Stockham, Neb.	Norcom, Prof. T. J., Reidsville, N. C.	Wild, Rev. E. P., Newport, Vt.
Black, W. H., Kadamazoo, Mich.	Goodwin, Wm., North Colebrook, Conn.	Neal, Dr. J. C., Archer, Fla.	Williams, Rev. C. F., Ashwood, Tenn.
Blackly, C. P., Manhattan, Kans.	Goodspeed, Chas. W., Elyria, Ohio.	Nordberg, A., Richardson, Dak.	Wing, Miss M. E., Charlotte, Vt.
Bridges, Q. A., Berlin Mills, N. H.	Gillingham, W., Acconit, Va.	Olds, H. D., Cedar Rapids, Iowa.	West, Silas, Cornish, Me.
Beecher, Chas., Wysox, Pa.	Garlick, Rev. Dr. J. R., Brimington, Va.	Owsley, Dr. J. B., Jacksonborough, O.	Wylie, Wm., Mount Forest, Canada.
Bowman, Peter, Ruggles, Ohio.	Gray, Capt. A. W., Kenewick, Wash. T.	Osborn, Dr. T. C., Cleburne, Tex.	Wait, S. E., Traverse City, Mich.
Cook, S. A., Milledgeville, Ga.	Grathwohl, John, Blooming Grove, Pa.	Penrod, Dr. H. J., Upper Mount Clair, N. J.	Woodstock College, Woodstock, Md.
Carrington, G. D., Brownville, Nebr.	Hessler, Robt., Connersville, Ind.	Pearce, Thomas, Kola, Oreg.	Whittaker, J. S., Corydon, Iowa.
Clark, T. A., Wausau, Wis.	Heath, E. R., Wyandotte, Kans.	Peele, Capt. A., New Westminster, B. C.	Wolfe, John H., Wellington, Kans.
Charbonnier, Prof. L. H., Athens, Ga.	Harvard College Observatory, Cambridge, Mass.	Parrick, J. M., North Volney, N. Y.	Wulfke, E. F., Independence, Iowa.
Casey, Geo., Auburn, N. Y.	Hannutt, John W., College Hill, Ohio.	Parrick University, Lafayette, Ind.	West, Dr. Jos. O., Princeton, Mass.
Crawford, E. A., Liberty Hill, La.	Harris, T. C., Raleigh, N. C.	Peterson, Dr. F., Comfort, Tex.	Washington Receiving Reservoir, D. C.
Curtiss, G. G., Fallston, Md.	Heaton, Isaac E., Fremont, Nebr.	Pendleton, A., Nicolaus, Cal.	Distributing " "
Cornell University, Ithaca, N. Y.	Hoskinson, R. M., Bainbridge Island, Wash. T.	Postma, H. Y., Egg Harbor City, N. J.	Great Falls Reservoir, Md.
Cutting, Dr. Hiram A., Lunenburg, Vt.	Heacock, J. L., Quakertown, Pa.	Piper, F. S., Hanover, N. H.	Rock Creek Bridge, D. C.
Crosier, Adam, Laconia, Ind.	Hyde, G. A., Cleveland, Ohio.	Robins, Chas. E., Alvah, Fla.	Winipiseogee Weir's Bridge, N. H.
Caulkins, John S., Thornville, Mich.	Haywood, John, Westerville, Ohio.	Romig, J. K., La Grande, Oreg.	Lake Cotton Wood-look, N. H.
Cass, John J., Allison, Kans.	Hartzler, J. A., Mottville, Mich.	Randall, E. H., Poultney, Vt.	and Woolen Lake Village, N. H.
Cleveland, Dr. G. H., Pentwater, Mich.	Hole, Joseph, Butlerville, Ind.	Renfrew, H. N., Bancroft, Iowa.	Manufacturing Co. Bristol, N. H.
Collie, G. L., Delevan, Wis.	Hager, Mrs. L. G., Terre Haute, Ind.	Remington, C. V. S., Fall River, Mass.	Belmont, N. H.
Cotton, Dr. D. B., Portsmouth, Ohio.	Held, Rev. F. B., Mount Angel, Oreg.	Robertson, T. D., Rockford, Ill.	Asbland, N. H.
Cheney, Wm., Minneapolis, Minn.	Houghton Farm Experiment Station, Mountaineville, N. Y.	Rogers, F. M., Luling, La.	Willis, O. R., A. M., Ph. D., White Plains, N. Y.
Carpenter, W. B., Leavenworth, Kans.	Heatwole, L. J., Dale Enterprise, Va.	Rerick, R. H., La Grange, Ind.	Watters, Dr. Jas., Westmoreland, Kans.
Carter, Rev. Dr. W. H., Tallahassee, Fla.	Hamilton, W. H., Corsicana, Tex.	Rodman, T. R., New Bedford, Mass.	Wigg, Dr. Geo., East Portland, Oreg.
Cummings, L. D., Palmyra, N. Y.	Hatch, A. H., Windsor, Ill.	Runge, C., New Ulm, Tex.	Wright, J. W. A., Greensborough, Ala.
Chubb, Thos. H., Post Mills, Vt.	Harris, W. C., Dover, N. J.	Richardson, C. F., Beverly, N. J.	Whitmore, J. E., Gallinas Spring, N. Mex.
Cole, Seward, Cahuenga, Cal.	Humphrey, Dr. L., Fairbury, Nebr.	Roeder, W. F., Zionsville, Penn.	Wadsworth, Dr. J. L. R., Collinsville, Ill.
Cutler, B. B., Heath, Mass.	Hall, J. B., Worcester, Mass.	Snell, S. C., Amherst, Mass.	Widman, Rev. C. M., Grand Coteau, La.
Clark, T. A., Weldon, N. C.	Hunter, Dr. T. C., Napoleon, Ohio.	Stone, W. E., Amherst, Mass.	Williams, Dr. A. C., Elk Falls, Kans.
Colton, Prof. G. H., Hiram, Ohio.	Hall, Chas. C., Dudley, Mass.	Stern, Jacob T., Logan, Iowa.	Wedge, J. C., Fond du Lac, Wis.
Coffee, Wm. K., Carthage, Mo.	Horn, Dr. H. B., Atchison, Kans.	Snow, Prof. F. E., Lawrence, Kans.	White, Rev. J. H., Merritt's Island, Fla.
Chandler, Dr. W. J., South Orange, N. J.	Hurlin, Rev. Wm., Antrim, N. H.	Smith, H. D., Monticello, Iowa.	Whitney, Chas. E., Humphrey, N. Y.
Cass, W. Earle, Roseland, N. J.	Helm, Thos. B., Logansport, Ind.	Smith, J. R., North Truro, Mass.	Wilson, W. T., Clayton, N. J.
Calhoun, P. B., Austin, Tenn.	Ireland, W. H., Rappahannock, Va.	Sanders, T. B., Susanville, Cal.	Wood, Jos., Bar Harbor, Me.
Chapin, Adams, Poway, Cal.	James, John W., Marengo, Ill.	Simmons, Prof. W. G., Wake Forest, N. C.	Walton, J. P., Muscatine, Iowa.
Childs, W. H., Brattleborough, Vt.	Jones, Dr. E. U., Taunton, Mass.	Slonker, Mrs. E. D., Snowville, Va.	Wearmouth, J., University of Virginia, Va.
Crump, M. H., Bowling Green, Ky.	Jackson Company, Nashua, N. H.	Strong, W. C., Kent's Hill, Me.	Waterman, Wm., Hay Springs, Nebr.
Cowgill, Prof. E. B., Manhattan, Kans.	Jordan, Dr. M. D. L., Milan, Tenn.	Shriver, E. T., Cumberland, Md.	Woodruff, Dr. S. E., Clyde, Ohio.
College of the Sacred Heart, Prairie du Chien, Wisconsin.	Kirkwood, E., Mauzy, Ind.	Seltz, Chas., De Soto, Nebr.	Yetter, Wm. G., Catawissa, Pa.
Davis, W. O., Bloomington, Ill.	Knapp, J. G., Limona, Fla.	Scott, Thos. G., Forsyth, Ga.	Yates, T. P., Factoryville, N. Y.
Dechant, W. H., Mahony Plane, Pa.	Keese, G. Pomeroy, Cooperstown, N. Y.		Young, Geo. R., Penn Yan, N. Y.
Dunlap, W. L., Tecumseh, Nebr.	Kuhne, F. W., Fort Wayne, Ind.		Zimmerman, F. C., Bunker Hill, Ill.
Dudley, C. B., Altoona, Pa.	Kent, Miss E. I., Phillipsburg, N. J.		
Dazey, J. B., Charleston, Ill.	Kilpatrick, Prof. J. W., Fayette, Mo.		
Deming, H. D., Wellsborough, Pa.			
Dozier, Wm., Mattoon, Ill.			

Military posts from which meteorological reports were received, through the Surgeon General of the Army, in time to be used in the preparation of the Monthly Weather Review for August, 1886.

Alcatraz Island, Cal.	Concho, Fort, Texas.	Keogh, Fort, Mont.	Monroe, Fort, Va.	Robinson, Fort, Nebr.	Supply, Fort, Ind. T.
Angel Island, Cal.	David's Island, N. Y. H.	Lowell, Fort, Ariz.	Melbourn, Fort, Ariz.	Reno, Fort, Ind. T.	Totten, Fort, Dak.
Assinaboine, Fort, Mont.	Ellis, Fort, Mont.	Laramie, Fort, Wyo.	McHenry, Fort, Md.	Riley, Fort, Kans.	Townsend, Ft., Wash. T.
A. Lincoln, Fort, Dak.	Fred Steele, Fort, Wyo.	Lewis, Fort, Colo.	Mount Vernon B'ks, Ala.	Snelling, Fort, Minn.	Union, Fort, N. Mex.
Benicia Barracks, Cal.	Gaston, Fort, Cal.	Meade, Fort, Dak.	Niagara, Fort, N. Y.	Saint Augustine, Fort, Fla.	Washakie, Fort, Wyo.
Bidwell, Fort, Cal.	Gibson, Fort, Ind. T.	McKinney, Fort, Wyo.	Niobrara, Fort, Nebr. [Cal.	Sisseton, Fort, Dak.	West Point, N. Y.
Brady, Fort, Mich.	Halleck, Fort, Nev.	McIntosh, Fort, Tex.	Presidio of San Francisco.	Shaw, Fort, Mont.	Walla Walla, Ft., Wash. T.
Boise, Fort, Idaho.	Hays, Fort, Kans.	Missoula, Fort, Mont.	Plattsburg Barracks, N. Y.	Selden, Fort, Nebr.	Wingate, Fort, N. Mex.
Camp Alene, Ft., Idaho.	Huachuca, Fort, Ariz.	Mason, Fort, Cal.	Pembina, Fort, Dak.	Sully, Fort, Dak.	Yates, Fort, Dak.
Columbus, Fort, N. Y. H.	Klamath, Fort, Oreg.	Madison Barracks, N. Y.	Randall, Fort, Dak.	Sidney, Fort, Nebr.	

State weather services from which meteorological reports were received in time to be used in the preparation of the Monthly Weather Review for August, 1886.

Alabama State Weather Service, under direction of Prof. P. H. Mell, jr., Auburn, Alabama.
 Georgia State Weather Service, under direction of Hon. J. T. Henderson, Commissioner of Agriculture, Atlanta, Georgia.
 Indiana State Weather Service, under direction of Prof. H. A. Huston, La Fayette, Indiana.
 Indiana State Weather Service, under direction of Prof. W. H. Ragan, Greencastle, Indiana.
 Iowa Weather Service, under direction of Dr. Gustavus Hinrichs, Iowa City, Iowa.
 Missouri State Weather Service, under direction of Prof. Francis E. Nipher, Saint Louis, Missouri.
 Nebraska Weather Service, under direction of Prof. Goodwin D. Swezey, Crete, Nebraska.
 New England Meteorological Society, Prof. Winslow Upton of Providence, R. I., President; Mr. W. M. Davis, of Cambridge, Mass., Secretary.
 Ohio State Weather Service, under direction of Prof. B. F. Thomas, of the Ohio State University, Columbus, Ohio.
 Tennessee State Weather Service, under direction of Major H. C. Bate, Nashville, Tennessee.